Participant Questionnaire

Participant number: __19__   Date: __7/6/23__

Location: __Brescia, IT__

HRC Study / Algorithms tested: __HAMP, STAP-PPF__

Study Conducted by: __Jared Flowers__

Participant link lengths/dimensions: (**meters**, "spine" is pelvis to shoulder midpoint, "shoulders" is shoulder to shoulder)

Spine			Left Upper Arm	-34		Right Upper Arm	.35
Neck			Left Forearm	.26		Right Forearm	.26
Shoulders	.3						

Participant joint diameter: (**meters**)

Left Elbow	.085		Right Elbow	.087
Left Wrist	.057		Right Wrist	.058

Questions:

A. How safe did you feel? (0 is not safe at all, 5 is neutral, 10 is very safe)

B. Do you think the robot hindered your motions during the task? (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

C. Did the robot perform logical motions? (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

D. What is your overall satisfaction with the HRC task? (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

For Task 1 (engine parts): (circle your answer to each question)

Task 1, Method 1:	(

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0   1   2   3   4   5   6   7   8   **(9)**   10

Task 1, Method 2:	3

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0   1   2   3   4   5   6   7   8   **(9)**   10

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0   1   2   3   4   5   6   7   8   **(9)**   10

Task 1, Method 3:	2

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0   1   2   3   4   5   6   7   8   9   **(10)**

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0   1   2   3   4   5   6   7   8   **(9)**   10

Comments:

For Task 2 (Sharework parts: metal tabs, cylinders, pallets): (circle your answer to each question)

Task 2, Method 1: *1*

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0   1   2   3   4   5   6   7   8   (9)   10

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0   1   2   3   4   5   6   7   8   9   (10)

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0   1   2   3   4   5   6   7   8   (9)   10

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0   1   2   3   4   5   6   7   8   (9)   10

Task 2, Method 2: *3*

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0   1   2   3   4   5   6   7   (8)   9   10

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0   1   2   3   4   5   6   7   8   9   (10)

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0   1   2   3   4   5   6   7   8   (9)   10

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0   1   2   3   4   5   6   7   8   (9)   10

Task 2, Method 3: *2*

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0   1   2   3   4   5   6   7   8   (9)   10

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0   1   2   3   4   5   6   7   8   9   (10)

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0   1   2   3   4   5   6   7   8   (9)   10

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0   1   2   3   4   5   6   7   8   (9)   10

Comments: Exp: 2